

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference F8009-7004	FOR FURTHER ACTION <small>see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</small>	
International application No. PCT/ IB 97/ 01091	International filing date (day/month/year) 10/09/1997	(Earliest) Priority Date (day/month/year) 11/09/1996
Applicant SHANAHAN-PRENDERGAST, ELIZABETH		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. ☒ Certain claims were found unsearchable (see Box I).
2. ☐ Unity of invention is lacking (see Box II).
3. ☐ The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing

☐ filed with the international application.
☐ furnished by the applicant separately from the international application,

☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.

☐ Transcribed by this Authority
4. With regard to the title, ☒ the text is approved as submitted by the applicant.
☐ the text has been established by this Authority to read as follows:
5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.
☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this International Search Report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is:

Figure No. _____

☐ as suggested by the applicant.
☐ because the applicant failed to suggest a figure.
☐ because this figure better characterizes the invention.

☒ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 97/01091

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 A61K35/58 A61K39/395 A61K38/46 G01N33/574 A61K9/127

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C07K C12N A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 322 262 A (COMMISSARIAT À L'ÉNERGIE ATOMIQUE) 28 June 1989 see column 5, line 11 - line 15 see column 5, line 20 - line 47 see claims 12-15 ---	1-5, 10-12, 20,32
X	US 5 164 196 A (PLATA ET AL.) 17 November 1992 see the whole document ---	1,5,10, 12,20
X	EP 0 246 861 A (PLATA ET AL.) 25 November 1987 see the whole document ---	1,5,10, 12,14,20
	-/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

9 December 1997

Date of mailing of the international search report

19.12.97

Name and mailing address of the ISA

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Nooij, F

INTERNATIONAL SEARCH REPORT

International Application No

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 459 450 A (SHIONOGI SEIYAKU KK) 4 December 1991 see the whole document ---	1,3,4, 14,17, 20,23,33
X	DE 41 42 552 A (BOEHRINGER MANNHEIM GMBH) 24 June 1993 see the whole document ---	1,3,4, 10,11, 14,17, 20,21,23
X	US 5 322 776 A (KNOPF ET AL.) 21 June 1994 see column 14, line 67 - column 15, line 43 ---	1,16,17, 20,23, 32,35
P,X	US 5 565 431 A (LIPPS ET AL.) 15 October 1996 see the whole document -----	1,5,10, 12,13,20

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB 97/01091

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☒ Claims Nos.:
because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

Claims Nos.: -

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

Claims 7,9-19,21-25 and 32 represent an obscurity, since, as a method claim, they, completely or partially, refer to one or more product claims.

Remark : Although claims 1-5,7,9-19,21-32,35, and 38-42 (all completely), and claims 36 and 37 (partially, as far as an in vivo method is concerned) are directed to a method of treatment of the human/animal body, and although claims 33 and 34 (both partially, as far as an in vivo method is concerned) are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

INTERNATIONAL SEARCH REPORT

International application No.

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Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The present invention comprises the method of treating host organisms (i.e. human or animal) in need of a drug having anti-neoplastic activity comprising the administration of a therapeutically effective amount of venom anti-serum either alone or preferably in combination with a Phospholipase C inhibitor of non-toxic nature or monoclonal or polyclonal anti-serum to Phospholipase C enzyme or a vaccine containing in whole or in part venom and/or other components of animal, insect or plant origin showing Phospholipase A₂ and/or Phospholipase C activity. This patent presents pharmaceutical formulations containing snake and/or insect venoms, or extracts from such venoms which may contain, total or partial, Phospholipase A₂ enzyme activity alone or in combination with animal or plant Phospholipase A₂ with or without Phospholipase C inhibiting compounds or Phospholipase C mono or polyclonal anti-serum to Phospholipase C enzyme as therapeutic vaccine candidate for all neoplastic diseases. This patent presents therapeutic pharmaceutical formulations containing anti-serum to snake and/or insect venoms wherein the anti-serum is preferably affinity purified for use in treating neoplastic diseases. This patent presents pharmaceutical formulations containing organic polymer mimic molecules generated to snake and/or insect and/or mammalian and/or plant PLA₂ enzymes or epitopes, or extract from such venoms or synthetic peptides and/or other molecules which may contain, total or partial, Phospholipase A₂ and C enzyme activity.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/IB 97/01091

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 322262 A	28-06-89	FR 2623508 A	26-05-89
		DE 3877547 A	25-02-93
		JP 1206992 A	21-08-89
		US 5045462 A	03-09-91
		US 5164315 A	17-11-92
		US 5130130 A	14-07-92

US 5164196 A	17-11-92	US 5232911 A	03-08-93

EP 246861 A	25-11-87	DE 3784768 A	22-04-93
		ES 2054668 T	16-08-94
		JP 1997077 C	08-12-95
		JP 7020875 B	08-03-95
		JP 63033334 A	13-02-88

EP 459450 A	04-12-91	JP 4036193 A	06-02-92
		AT 130037 T	15-11-95
		DE 69114361 D	14-12-95
		DE 69114361 T	18-04-96
		ES 2082040 T	16-03-96
		US 5358849 A	25-10-94

DE 4142552 A	24-06-93	AT 136791 T	15-05-96
		DE 59206069 D	23-05-96
		WO 9312816 A	08-07-93
		EP 0618815 A	12-10-94
		JP 6510912 T	08-12-94
		JP 2522903 B	07-08-96

US 5322776 A	21-06-94	US 5622832 A	22-04-97
		US 5354677 A	11-10-94
		US 5593878 A	14-01-97
		US 5527698 A	18-06-96

US 5565431 A	15-10-96	NONE	
